

SEQUENCE LISTING

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<120> EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL
NUCLEIC ACIDS

<130> 04853.0059-00000

<140> 09/763,590

<141> 2001-02-26

<150> PCT/JP99/04718

<151> 1999-08-31

<150> JP 10/244755

<151> 1998-08-31

<160> 25

<170> PatentIn Ver. 2.1

<210> 1

<211> 135

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleotide
sequence of Rz2

<400> 1

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uucgaaaccg ggcacuacaa acacaacacu gaugaggacc gaaagguccg aaacggggcac 120
gucggaaacg guuuu                                     135
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<210> 2

<211> 141

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleotide
sequence of Rz3

<400> 2

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uucgaaaccg ggcacuacaa accaacacac aacacugaug aggaccgaaa gguccgaaac 120
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<210> 3

<211> 128

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleotide
sequence of Rz1

<400> 3

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uucgaaaccg ggcacccaca caacacugau gaguccguga ggacgaaacg ggcaccucga 120
gcgcuuuu                                     128
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<210> 4

<211> 95

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleotide
sequence of the transcript of human placental tRNA Val

<400> 4

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accguugguu uccguagugu agugguuauc acguucgccu aacacgcgaa aggucccccgg 60
uucgaaaccg ggcgaaaca aagacagucg cuuuu                                     95
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<210> 5

<211> 149

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleotide
sequence of Rz4

<400> 5

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uucgaaaccg ggcacccggg uggcugucac cggaagugcu uuccggucuc augaguccgu 120
gagggcgaaa cagccacucg agcgcuuuu                                     149
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<210> 6

<211> 110

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Sequence of a
sense oligonucleotide linker

<400> 6

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aattcaggac tagtctttta ggtcaaaaag aagaagcttt gtaaccgttg gtttccgtag 60
tgtagtggtt atcacgttcg cctaacacgc gaaagggtccc cggttcgaag             110
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<210> 7

<211> 113

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Sequence of an antisense oligonucleotide linker

<400> 7

tcgacttcga accgggggacc ttctcgctgt taggcgaacg tgataaccac tacactacgg 60
aaaccaacgg ttacaaagct tcttcttctt ttgacctaa aagactagtc ctg 113

<210> 8

<211> 53

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Sequence of a sense oligonucleotide linker

<400> 8

cgaaaccggg caccggggga atataacctc gagcgctttt tttctatcgc gtc 53

<210> 9

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Sequence of an antisense oligonucleotide linker

<400> 9

tcgacgcgat agaaaaaaaa cgctcgaggt tatattcccc gggtgcccgg ttcc 54

<210> 10

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Sequence of an upper primer

<400> 10

cgccagggtt tcccagtcac gac 23

<210> 11

<211> 101

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Sequence of a lower primer including the sequences of Rzl and a terminator

<400> 11
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 atcagtgttg tgtgggtgcc cgtttcgaa ccgggacctt t 101

<210> 12
 <211> 109
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Sequence of a
 lower primer including the sequences of Rz2 and a
 terminator

<400> 12
 ctgcaggtcg acgcgataga aaaaaaccgt ttccgacgtg ccggtttcgg tcctttcggg 60
 cctcatcagt gttgtgttg tagtgcccg tttcgaaccg gggaccttt 109

<210> 13
 <211> 106
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Sequence of a
 lower primer including the sequences of Rz3 and a
 terminator

<400> 13
 ctgcaggtcg acgcgataga aaaaaaccgt ttccgacgtg ccggtttcgg tcctcatcag 60
 tgttgtgtg tggttttag tgcccggtt cgaaccggg accttt 106

<210> 14
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Sequence of a
 probe specific for the reference RNA

<400> 14
 aaatcgctat aaaaagcgt cgaggttatg ctccccgggt 40

<210> 15
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Sequence of a
 probe specific for the ribozyme

<400> 15
ctcatctgtg ttgtgt

16

<210> 16
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Sequence of a
primer for b-actin

<400> 16
gtggccatct cttgctcgaa

20

<210> 17
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Sequence of a
primer for the ribozyme

<400> 17
gacctttcgg tcctcatc

18

<210> 18
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Sequence of an
upper oligonucleotide primer

<400> 18
gactacctca tgaagatcct

20

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Sequence of a
lower oligonucleotide primer

<400> 19
gtggccatct cttgctcgaa

20

<210> 20
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Sequence of an
 upper oligonucleotide primer

<400> 20
 gttatcacgt tcgcctaa 18

<210> 21
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Sequence of a
 lower oligonucleotide primer

<400> 21
 gacctttcgg tcctcatc 18

<210> 22
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Sequence of a
 probe specific for the ribozyme

<400> 22
 acgcgaaagg tccccggt 18

<210> 23
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Sequence of a
 probe specific for b-actin

<400> 23
 gcgggaaaat cgtgcgtga 19

<210> 24
 <211> 38
 <212> RNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Substrate RNA
corresponds to nucleotides 500-711 of pNL 432,
namely the U5 region of HIV-1 RNA

<400> 24

acacaacacu gaugaguccg ugaggacgaa acgggcac

38

<210> 25

<211> 17

<212> RNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Substrate RNA
corresponds to nucleotides 500-711 of pNL 432,
namely the U5 region of HIV-1 RNA

<400> 25

gugcccgucu guugugu

17